

Search Readme

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No memory leaks were found through valgrind.

Note: Files that return from the search are listed in alphabetical order, not by number of occurrences.

Design:

We have an sfunc.c file that is a modification of our sorted list program. Instead of putting items into a linked list, it puts them into a hash table, making it faster to find/insert items. This file also has a getNode function that returns the desired node given the word you are looking for.

There is a search.c file that has a compare function, a sand function (search and), a sor function (search or), and the main function. The sand and sor functions take the first word and put all of its files into a final list (which is returned). Then it compares it to the next word's files. All file lists are in alphabetical order to cut down on running time.